
**BATTERY MONITORING SYSTEM FOR
AN IMPLANTABLE MEDICAL DEVICE**

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Abstract of the Disclosure

10 An implantable cardiac device, such as a pacemaker, provided with
a carbon monofluoride (CF_x) battery. The CF_x battery enables
replacement of the typical voltage tripler with a voltage doubler and
eliminates the need for a bulky decoupling capacitor. The device includes
a precision A/D and voltage monitor to enable more accurate prediction of
impending battery end-of-life. Several methods of accurately determining
a pending end-of-life of a battery with a flat voltage output throughout
discharge, such as a CF_x battery, are provided.